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<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/751,783	SUBRAMANIAN, RAVI	
	<b>Examiner</b>	<b>Art Unit</b>	
	Phuong Phu	2631	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on 6/23/05.
2. ☒ The allowed claim(s) is/are 29-31 and 59-62.
3. ☒ The drawings filed on 29 December 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

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| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date _____</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
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### **DETAILED ACTION**

This Office Action is responsive to the Amendment filed on 6/23/05.

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms Laura Brutman on 08/03/05.

The application has been amended as follows:

#### **IN THE CLAIMS:**

Claims 1-27 and 32-57 have been canceled.

### **REASONS FOR ALLOWANCE**

2. Claims 29-31 and 59-62 are allowed.
3. The following is an examiner's statement of reasons for allowance:

-Regarding to independent claim 29, none of prior art of record teaches or suggests a receiver as claimed. Wang in view of Sklar, (both previously cited), fails to teach the limitation "a plurality of configurable digital coherent demodulator systems, which are arranged in parallel to one another, for feed forward phase correcting and processing multipath components of the filtered digital signal", in combinations with other limitations recited in the claim. It would not have been obvious for one skilled in the art to implement either or combination of Wang and

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Sklar in view of other prior art of record in order to lead such the implementation to the claimed invention.

-Regarding to independent claim 30, none of prior art of record teaches or suggests a receiver as claimed. Wang in view of Sklar, (both previously cited), fails to teach the limitation “the at least one configurable digital coherent demodulator system comprises a configurable pilot channel parameter estimator for processing a signal based on the filtered digital signal and having an input for receiving a configurable accumulator length to allow the parameter estimator to be configured for a given user, application, and/or performance level”, in combinations with other limitations recited in the claim. It would not have been obvious for one skilled in the art to implement either or combination of Wang and Sklar in view of other prior art of record in order to lead such the implementation to the claimed invention.

-Regarding to independent claim 31, none of prior art of record teaches or suggests a receiver as claimed. Wang in view of Sklar, (both previously cited), fails to teach the limitation “the at least one configurable digital coherent demodulator system comprises a configurable correction device having an input for receiving a configurable delay value which establishes an amount of delay between the configurable correction device receiving a sample of a demodulated signal, which is based on the filtered digital signal, and transmitting the sample”, in combinations with other limitations recited in the claim. It would not have been obvious for one skilled in the art to implement either or combination of Wang and Sklar in view of other prior art of record in order to lead such the implementation to the claimed invention.

-Regarding to independent claim 59, none of prior art of record teaches or suggests a method of processing data as claimed. Wang in view of Sklar, (both previously cited), fails to

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teach the limitation “demodulating a user code sequence from the complex channel signal to produce code demodulated sample; and communicating the code demodulated sample to a plurality of configurable traffic demodulators”, in combinations with other limitations recited in the claim. It would not have been obvious for one skilled in the art to implement either or combination of Wang and Sklar in view of other prior art of record in order to lead such the implementation to the claimed invention.

-Regarding to independent claim 61, none of prior art of record teaches or suggests a method of processing data as claimed. Wang in view of Sklar, (both previously cited), fails to teach the limitation “feeding forward a digital phase correction signal, which is based on the complex channel signal, within each of a plurality of configurable coherent demodulator systems to respectively correct a phase error in each of a plurality of a demodulated multipath data signals, which are based on the complex channel signal”, in combinations with other limitations recited in the claim. It would not have been obvious for one skilled in the art to implement either or combination of Wang and Sklar in view of other prior art of record in order to lead such the implementation to the claimed invention.

-Regarding to independent claim 62, none of prior art of record teaches or suggests a method of processing data as claimed. Wang in view of Sklar, (both previously cited), fails to teach the limitation “receiving a configurable pilot filter length at a configurable pilot channel estimator portion provided within the configurable demodulator system; and generating a digital error correction signal, which is based on the complex channel signal, using an open loop phase estimator provided within the pilot channel estimator portion”, in combinations with other limitations recited in the claim. It would not have been obvious for one skilled in the art to

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implement either or combination of Wang and Sklar in view of other prior art of record in order to lead such the implementation to the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (6:30-2:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*Phuong Phu*

Phuong Phu  
08/03/05

**PHUONG PHU**  
**PRIMARY EXAMINER**

Phuong Phu  
Primary Examiner  
Art Unit 2631